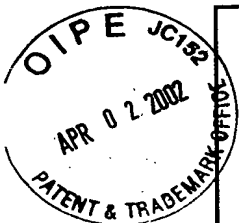


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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	8733.176.00-US
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**Complete if Known**

Application Number	09/446,330
Filing Date	December 21, 1999
First Named Inventor	Sergey E. Yakovenko
Art Unit	2713
Examiner Name	Not Yet Assigned
Attorney Docket Number	8733.176.00-US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Q	A	S.T. Wu, C.S. Wu, "High-Brightness Projection Displays Using Mixed-Mode Twisted-Nematic Liquid-Crystal Cells," SID Digest 27, 32.1, 763-766 (1996)-1	
Q	B	N. Yamagishi, H. Watanabe, K. Yokoyama, "Wide Viewing Angle LCD Using Retardation Films," Japan Display 89, P2-10, 316-319 (1989)-2	
Q	C	M. Schadt, "Invited Paper: Optical Patterning of Multidomain LCDs," Proc. SID '97, 24.1, 397-400 (1997)-3	
Q	D	J. Chen et al., "Optimum Film Compensation Modes for TN and VA LCDs," SID '98 DIGEST, 21-2, 1085-1088 (1998)-4	
Q	E	M. Ohta et al., Development of Super-TFT-LCDs with In-Plane Switching Display Mode," Asia Display '95, S30-2, 707-710 (1995)-5	
Q	F	A. Lien, et al., "Ridge and Fringe-Field Multi-Domain Homeotropic LCD," SID 98 DIGEST, 44.1L, 1123-1126 (1998)-7	
Q	G	A. Takeda et al., "A Super-High Image Quality Multi-Domain Vertical Alignment LCD by New Rubbing-Less Technology," SID 98 DIGEST, 41.1, 1077-1080 (1998)-8	

Examiner Signature		Date Considered	10/30/02
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/446,330
		Filing Date	March 23, 2000
		First Named Inventor	Sergey E. Yakovenko
		Art Unit	2871
		Examiner Name	J. Dudek
		Attorney Docket Number	8733.176.00-US
Sheet	1	of	2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>


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①	CA	SID 97 DIGEST, 24.1 "Invited Paper: Optical Patterning of Multidomain LCDs," M. Schadt and H. Seiberle, Rolic Ltd., Basel, Switzerland, pp.397-400			
②	CB	JAPAN DISPLAY, P2-10 "Wide Viewing Angle LCD Using Retardation Films," N. Yamagishi, H. Watanabe and K. Yokoyama, Matsushita Electric Industrial Co. Ltd., Osaka, pp.316-319			
③	CC	SID 98 DIGEST, 41.3 "New LCD Modes for Wide-Viewing Angle Applications," K.-H. Kim, S.-B. Park, J.-U. Shim and J. -H. Souk, Samsung Electronics, Kyungki-Do, Korea, J.Chen, Liquid Crystal Institute, Kent State University, Kent, OH, pp.1085-1088			
④	CD	SID 98 DIGEST, 41.1 "A Super-High-Image-Quality Multi-Domain Vertical Alignment LCD by New Rubbing-Less Technology," A. Takeda, S. Kataoka, T. Sasaki, H. Chida, H. Tsuda, K. Ohmuro and Y. Koike, Fujitsu Ltd., Atugi, Japan, T. Sasabayashi and K. Okamotoa Fujitsu, Ltd., Kawasaki, Japan, pp. 1077-1080			
⑤	CE	ASIA DISPLAY 95, S30-2 "Development of Super-TFT-LCDs with In-Plane Switching Display Mode," M. Ohta, M. Oh-e and K. Kondo, Electron Tube & Devices Div., Hitachi, Ltd., Mobara, Japan, Hitachi Res. Lab., Hitachi, Ltd., Hitachi, Japan, pp.707-710			
⑥	CF	SID 96 DIGEST, 32.1 "High-Brightness Projection Displays Using Mixed-Mode Twisted-Nematic Liquid-Crystal Cells, S.-T. Wu and C.-S. Wu, Hughes Research Laboratories, Malibu, CA pp. 763-766			
⑦	CG	SID 98 DIGEST, 44.1 "Ridge and Fringe-Field Multi-Domain Homeotropic LCD," A. Lien, R. Nunes, R. A. John, E. Galligan, E. Colgan and J. Wilson, IBM T. J. Watson Research Center, Yorktown Heights, NY, C. Cai, Polytechnic University, Brooklyn, NY, pp.1123-1126			
⑧	CH	SID 98 DIGEST, 44.2L "Multi-Domain Vertically Aligned Mode," V. A. Kononov, A. A. Muravski, C. N. Timofeev and S. Ye Yakovenko, Institute of Applied Physics Problems, Minsk, Belarus, pp.1127-1130			

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
	7/9/03